

[illegible]

MMO
VO4

```

LL               IIIII
LL               IIIII
LL               II
LL               II
LL               II
LL               II
LL               II
LL               II
LL               II
LL               II
LL               II
LL               II
LLL             IIIII
LLL             IIIII

SSSSSSS
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SSSSS

```

(2)	48	DECLARATIONS
(2)	52	MACROS
(3)	199	DATA STORAGE AND MESSAGE STRINGS
(6)	326	INITIALIZATION
(7)	374	FORCE ERRORS FROM SETPRT
(8)	411	SUBROUTINES TO CALL THE SERVICES
(9)	554	MISCELLANEOUS SUBROUTINES


```
0000 1 :  
0000 2 :  
0000 3 :  
0000 4 :  
0000 5 :  
0000 6 :  
0000 7 :  
0000 8 :  
0000 9 :  
0000 10 :  
0000 11 :  
0000 12 :  
0000 13 :  
0000 14 :  
0000 15 :  
0000 16 :  
0000 17 :  
0000 18 :  
0000 19 :  
0000 20 :  
0000 21 :  
0000 22 :  
0000 23 :  
0000 24 :  
0000 25 :  
0000 26 :  
0000 27 :  
0000 28 :  
0000 29 :  
0000 30 :  
0000 31 :  
0000 32 :  
0000 33 :  
0000 34 :  
0000 35 :  
0000 36 :  
0000 37 :  
0000 38 :  
0000 39 :  
0000 40 :  
0000 41 :  
0000 42 :  
0000 43 :  
0000 44 :  
0000 45 :  
0000 46 :
```

MEMORY MANAGEMENT SERVICES TEST #2

.TITLE MMGSETPRT - TEST OF \$SETPRT SYSTEM SERVICE
.IDENT 'V04-000'

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FACILITY: USER MODE MEMORY MANAGEMENT SERVICES TEST
ABSTRACT: THIS SET OF ROUTINES TESTS THE MEMORY MANAGEMENT SERVICES
ENVIRONMENT: USER MODE DIAGNOSTIC
AUTHOR: PETER H. LIPMAN , CREATION DATE: 6-JAN-77
MODIFIED BY:
V02-012 SHZ0007 Stephen Zalewski 20-Aug-1980
Added further tests to system services tested in this
program. Also incorporated program into MMG test
package.

```
0000 48      .SBTTL  DECLARATIONS
0000 49      :
0000 50      : INCLUDE FILES:
0000 51      :
0000 52      :      .SBTTL  MACROS
0000 53      :
0000 54      :      MACROS:
0000 55      :
0000 56      :      .MACRO  LIST
0000 57      :      .LIST   MEB
0000 58      :      .ENDM   LIST
0000 59      :
0000 60      :      .MACRO  NLIST
0000 61      :      .NLIST  MEB
0000 62      :      .ENDM   NLIST
0000 63      :
0000 64      :      .MACRO  READ  SIZ=#1,ADR=(R2),?L1,?L2
0000 65      :      IFNORD  <SIZ>,<ADR>,L1
0000 66      :      BRB      L2
0000 67 L1:      MOVAL    W^READERR,R1
0000 68      BSBW      PROBERR
0000 69 L2:
0000 70      .ENDM   READ
0000 71
0000 72      :      .MACRO  WRITE SIZ=#1,ADR=(R2),?L1,?L2
0000 73      :      IFNOWRT <SIZ>,<ADR>,L1
0000 74      :      BRB      L2
0000 75 L1:      MOVAL    W^WRITERR,R1
0000 76      BSBW      PROBERR
0000 77 L2:
0000 78      .ENDM   WRITE
0000 79
0000 80      :      .MACRO  NOREAD SIZ=#1,ADR=(R2),?L1
0000 81      :      IFNORD  <SIZ>,<ADR>,L1
0000 82      :      MOVAL    W^NOREADERR,R1
0000 83      :      BSBW      PROBERR
0000 84 L1:
0000 85      .ENDM   NOREAD
0000 86
0000 87      :      .MACRO  NOWRITE SIZ=#1,ADR=(R2),?L1
0000 88      :      IFNOWRT <SIZ>,<ADR>,L1
0000 89      :      MOVAL    W^NOWRITERR,R1
0000 90      :      BSBW      PROBERR
0000 91 L1:
0000 92      .ENDM   NOWRITE
0000 93
0000 94      :      .MACRO  CRETVA STARTVA,ENDVA,STATUS=S^#SS$ NORMAL,-
0000 95      :      INADR=W^INRANGE,RETADR=W^RETRANGE
0000 96      LIST
0000 97      :      .IF      NB,STARTVA
0000 98      :      MOVL     STARTVA,W^INRANGE
0000 99      :      .ENDC
0000 100     :      .IF      NB,ENDVA
0000 101     :      MOVL     ENDVA,W^INRANGE+4
0000 102     :      .ENDC
0000 103     :      MOVZWL   STATUS,R3
0000 104     :      MOVAL    INADR,R0
```

```
0000 105      MOVAL  RETADR,R1
0000 106      BSBW   CRETVA$UBR
0000 107      NLIST
0000 108      .ENDM  CRETVA
0000 109
0000 110      .MACRO DELTVA STARTVA,ENDVA,STATUS=S^#SS$ NORMAL,-
0000 111                      INADR=W^INRANGE,RETADR=W^RETRANGE
0000 112      LIST
0000 113          .IF      NB,STARTVA
0000 114          MOVL     STARTVA,W^INRANGE
0000 115          .ENDC
0000 116          .IF      NB,ENDVA
0000 117          MOVL     ENDVA,W^INRANGE+4
0000 118          .ENDC
0000 119          MOVZWL    STATUS,R3
0000 120          MOVAL    INADR,R0
0000 121          MOVAL    RETADR,R1
0000 122          BSBW     DELTVA$UBR
0000 123      NLIST
0000 124      .ENDM  DELTVA
0000 125
0000 126      .MACRO EXPREG PAGCNT,REGION=#0,STATUS=S^#SS$_NORMAL,-
0000 127                      RETADR=W^RETRANGE
0000 128      LIST
0000 129          MOVZWL    STATUS,R3
0000 130          MOVL     PAGCNT,R4
0000 131          MOVAL    RETADR,R1
0000 132          .IF      IDN,<REGION>,<#0>
0000 133          CLRL     R5
0000 134          .IFF
0000 135          MOVL     REGION,R5
0000 136          .ENDC
0000 137          BSBW     EXPREG$UBR
0000 138      NLIST
0000 139      .ENDM  EXPREG
0000 140
0000 141      .MACRO SETPRT ACC,STARTVA,ENDVA,STATUS=S^#SS$ NORMAL,-
0000 142                      INADR=W^INRANGE,RETADR=W^RETRANGE,-
0000 143                      PRVPRT=NONE,PRVPRTADR
0000 144      LIST
0000 145          .IF      NB,STARTVA
0000 146          MOVL     STARTVA,W^INRANGE
0000 147          .ENDC
0000 148          .IF      NB,ENDVA
0000 149          MOVL     ENDVA,W^INRANGE+4
0000 150          .ENDC
0000 151          MOVZWL    STATUS,R3
0000 152          MOVAL    INADR,R0
0000 153          MOVAL    RETADR,R1
0000 154          MOVZBL    S^#PRT$C-'ACC',R4
0000 155          MOVZBL    S^#PRT$C-'PRVPRT',R5
0000 156          .IF      B,PRVPRTADR
0000 157          DIF,<PRVPRT>,<NONE>
0000 158          MOVAL    W^PREVPROT,R6
0000 159          .IFF
0000 160          CLRL     R6
0000 161          .ENDC
```



```
0000 162      .IFF
0000 163      MOVAL  PRVPRTADR,R6
0000 164      .ENDC
0000 165      BSBW   SETPRTSUBR
0000 166      NLIST
0000 167      .ENDM  SETPRT
0000 168
0000 169      .MACRO  RANGECHK ONOROFF
0000 170      LIST
0000 171      .IF    IDN <ONOROFF>,<OFF>
0000 172      BICL   #CTLSM_RNGCHK,W^CTLFLG
0000 173      .IFF
0000 174      BISL   #CTLSM_RNGCHK,W^CTLFLG
0000 175      .ENDC
0000 176      NLIST
0000 177      .ENDM  RANGECHK
0000 178
0000 179      :
0000 180      : EQUATED SYMBOLS:
0000 181      :
0000 182      $SECDDEF
0000 183      $SSDEF
0000 184      $PRTDEF
0000 185      $GBLINI
0000 186      $VIELD  CTL,0,<-
0000 187      <MEMLOOP,,MASK>,-
0000 188      <TSTLOOP,,MASK>,-
0000 189      <PIDMSG,,MASK>,-
0000 190      <RNGCHK,,MASK>-
0000 191      >
00000010 0000 192      PRT$C_NONE=104
00000020 0000 193      PRT$C_TOBIG=105
00000001 0000 194      PRT$C_RESERVE=100
0000 195      :
0000 196      : OWN STORAGE:
0000 197      :
```

```
:DEFINE CONTROL BITS IN R3
:LOOP IN MEMORY WRITE LOOP
:REDO ENTIRE TEST FROM TOP
:PUT PROCESS ID IN EACH TYPEOUT
:ON IF CHECKING RETURN RANGE
```

```
0000 199 .SBTTL DATA STORAGE AND MESSAGE STRINGS
00000000 200 .PSECT DATA0,PAGE,WRT,NOEXE
0000 201 INRANGE:
00000008 0000 202 .BLKL 2
0008 203 RETRANGE:
00000010 0008 204 .BLKL 2
00000006 0010 205 CTLFLG: .LONG CTL$M_TSTLOOP!CTL$M_PIDMSG
00000018 0014 206 SAVEND: .BLKL 1
0000001C 0018 207 PID: .BLKL 1 ;PROCESS ID
001C 208 MAXPASSCNT:
00000003 001C 209 .LONG 3 ;NUMBER OF PASSES TO RUN
0020 210 PASSCNT:
00000024 0020 211 .BLKL 1 ;PASS COUNTER
0024 212 PREVPROT:
0024 213 FAB: $FAB FAC=PUT, FNA=OUTNAMADR, FNS=OUTNAMSIZ ;FAB FOR OUTPUT
0074 214 RAB: $RAB FAB=FAB ;RECORD ACCESS BLOCK FOR OUTPUT
000000BC 00B8 215 MSGLEN: .BLKL 1 ;RETURN LENGTH FROM FAO
000000DA'000000A0' 00BC 216 MSGBUFD: .LONG MSGBUFSIZ,MSGBUF ;MESSAGE BUFFER DESCRIPTOR
00C4 217 PIDMSGD:
000000D6'00000004' 00C4 218 .LONG MSGBUF-PIDMSG,PIDMSG
00CC 219 :
00CC 220 : ***** DO NOT SEPARATE OR REORDER THE FOLLOWING LINES
00CC 221 :
00CC 222 MSGBUFID:
00CC 223 CRLF: .BYTE ^015,^012
20 53 53 45 43 4F 0A 0D 00CE 224 .ASCII $PROCESS $
20 20 20 20 00D6 225 PIDMSG: .ASCII $ $
0000017A 00DA 226 MSGBUF: .BLKB 160 ;MESSAGE BUFFER USED BY FAO
000000A0 017A 227 MSGBUFSIZ=-MSGBUF
017A 228 :
017A 229 : ***** DO NOT SEPARATE OR REORDER THE PRECEEDING LINES
017A 230 :
017A 231 :
```



```
00000000 233 .PSECT CODE,PAGE,NOWRT,EXE
0000 234
0000 235 OUTNAMADR:
0000 236 .ASCII /SYSS$OUTPUT/
000A 237 OUTNAMSIZ=-OUTNAMADR
000A 238
000A 239 CRETVAERRADR:
240 .ASCII $!/CRETVA ERROR - PC = !XL, STATUS WAS !XL, SHOULD BE !XL$
52 52 45 20 41 56 54 45 52 43 2F 21 000A
58 21 20 3D 20 43 50 20 2D 20 52 4F 0016
41 57 20 53 55 54 41 54 53 20 2C 4C 0022
4C 55 4F 48 53 20 2C 4C 58 21 20 53 002E
21 20 3D 20 52 44 41 4E 49 09 2F 21 003A
52 20 20 2C 4C 58 21 20 2D 20 4C 58 0042
20 4C 58 21 20 3D 20 52 44 41 54 45 004E
2F 21 4C 58 21 20 2D 005A
00000063 0066
006D 242 CRETVAERRSIZ=-CRETVAERRADR
006D 243
006D 244 DELTVAERRADR:
245 .ASCII $!/DELTVA ERROR - PC = !XL, STATUS WAS !XL, SHOULD BE !XL$
52 52 45 20 41 56 54 4C 45 44 2F 21 006D
58 21 20 3D 20 43 50 20 2D 20 52 4F 0079
41 57 20 53 55 54 41 54 53 20 2C 4C 0085
4C 55 4F 48 53 20 2C 4C 58 21 20 53 0091
21 20 3D 20 52 44 41 4E 49 09 2F 21 009D
52 20 20 2C 4C 58 21 20 2D 20 4C 58 00A5
20 4C 58 21 20 3D 20 52 44 41 54 45 00B1
2F 21 4C 58 21 20 2D 00BD
00000063 00C9
00D0 247 DELTVAERRSIZ=-DELTVAERRADR
00D0 248
00D0 249 EXPREGERRADR:
250 .ASCII $!/EXPREG ERROR - PC = !XL, STATUS WAS !XL, SHOULD BE !XL$
52 52 45 20 47 45 52 50 58 45 2F 21 00D0
58 21 20 3D 20 43 50 20 2D 20 52 4F 00DC
41 57 20 53 55 54 41 54 53 20 2C 4C 00E8
4C 55 4F 48 53 20 2C 4C 58 21 20 53 00F4
20 3D 20 54 4E 43 47 41 50 09 2F 21 0100
20 4E 4F 49 47 45 52 20 2C 4C 53 21 0108
45 43 41 50 53 20 42 55 21 50 20 3D 0114
4C 58 21 20 3D 20 52 44 41 54 45 52 0120
2F 21 4C 58 21 20 2D 20 012C
00000072 012E
0142 252 .ASCII $RETADR = !XL - !XL!/$
0142 253 EXPREGERRSIZ=-EXPREGERRADR
0142 254
0142 255 SETPRTEERRADR:
256 .ASCII $!/SETPRT ERROR - PC = !XL, STATUS WAS !XL, SHOULD BE !XL$
52 52 45 20 54 52 50 54 45 53 2F 21 0142
58 21 20 3D 20 43 50 20 2D 20 52 4F 014E
41 57 20 53 55 54 41 54 53 20 2C 4C 015A
4C 55 4F 48 53 20 2C 4C 58 21 20 53 0166
21 20 3D 20 52 44 41 4E 49 09 2F 21 0172
52 20 20 2C 4C 58 21 20 2D 20 4C 58 017A
20 4C 58 21 20 3D 20 52 44 41 54 45 0186
4C 58 21 20 3D 20 52 44 41 54 45 0192
20 53 55 4F 49 56 45 52 50 09 2F 21 019E
57 20 4E 4F 49 54 43 45 54 4F 52 50 01A3
4F 48 53 20 2C 42 58 31 21 20 53 41 01AF
01BB 257 .ASCII $!/ INADR = !XL - !XL, RETADR = !XL - !XL$
258 .ASCII $!/ PREVIOUS PROTECTION WAS !1XB, SHOULD BE !1XB!/$
```

```
21 42 58 31 21 20 45 42 20 44 4C 55 01C7
2F 01D3
00000092 01D4 259 SETPRTERRSIZ=.-SETPRTERRADR
01D4 260
01D4 261 READERRADR:
01D4 262 .ASCII $!/ READ ERROR - LOCATION = !XL !/$
01E0
01EC
01F5 263 READERRSIZ=.-READERRADR
01F5 264
01F5 265 NOREADERRADR:
01F5 266 .ASCII $!/ NO-READ ERROR - LOCATION = !XL !/$
0201
020D
020D 00000024 0219 267 NOREADERRSIZ=.-NOREADERRADR
0219 268
0219 269 WRITERRADR:
0219 270 .ASCII $!/ WRITE ERROR - LOCATION = !XL !/$
0225
0231
023B 271 WRITERRSIZ=.-WRITERRADR
023B 272
023B 273 NOWRITERRADR:
023B 274 .ASCII $!/ NO-WRITE ERROR - LOCATION = !XL !/$
0247
0253
025F 00000025 0260 275 NOWRITERRSIZ=.-NOWRITERRADR
0260 276
0260 277 RANGERRADR:
0260 278 .ASCII $!/RETURN RANGE ERROR - LOCATION = !XL$
026C
0278
0284
0285 279 .ASCII $!/ INADR = !XL - !XL, RETADR = !XL - !XL!/$
0291
029D
02A9
02AF 280 RANGERRSIZ=.-RANGERRADR
02AF 281
02AF 282 IDMSGADR:
02AF 283 .ASCII $!/MEMORY MANAGEMENT SERVICES TEST #2 (SETPRT), PASS !UL!/$
02BB
02C7
02D3
02DF
02E8 284 IDMSGGSIZ=.-IDMSGADR
02E8 285
02E8 286 RUN1_MSGADR:
02E8 287 .ASCII $!/ ***** TEST WILL NOW BE RUN USING NORMAL VA SPACE *****$
02F4
0300
030C
0318
0324
0327 288 .ASCII $!/ $
032A 289 RUN1_MSGGSIZ=.-RUN1_MSGADR
00000042
```

MMGSETPRT
V04-000

- TEST OF SSETPRT SYSTEM SERVICE J 12
DATA STORAGE AND MESSAGE STRINGS

16-SEP-1984 01:59:27 VAX/VMS Macro V04-00 Page 8
5-SEP-1984 01:58:23 [MMGTST.SRC]MMGSETPRT.MAR;1 (4)

	032A	290	
	032A	291	PIDCTLADR:
4C 55 21	032A	292	.ASCII \$!UL\$
00000003	032D	293	PIDCTLSIZ=-PIDCTLADR

	032D	295	:	
	032D	296	:	STRING DESCRIPTORS
	032D	297	:	
	032D	298	:	
	0330	299	:	.ALIGN LONG
	0330	300	:	CRETVAERR:
0000000A'00000063	0330	301	:	.LONG CRETVAERRSIZ,CRETVAERRADR
	0338	302	:	DELTVAERR:
0000006D'00000063	0338	303	:	.LONG DELTVAERRSIZ,DELTVAERRADR
	0340	304	:	EXPREGERR:
000000D0'00000072	0340	305	:	.LONG EXPREGERRSIZ,EXPREGERRADR
	0348	306	:	SETPRTERR:
00000142'00000092	0348	307	:	.LONG SETPRTERRSIZ,SETPRTERRADR
	0350	308	:	READERR:
000001D4'00000021	0350	309	:	.LONG READERRSIZ,READERRADR
	0358	310	:	NOREADERR:
000001F5'00000024	0358	311	:	.LONG NOREADERRSIZ,NOREADERRADR
	0360	312	:	WRITERR:
00000219'00000022	0360	313	:	.LONG WRITERRSIZ,WRITERRADR
	0368	314	:	NOWRITERR:
0000023B'00000025	0368	315	:	.LONG NOWRITERRSIZ,NOWRITERRADR
	0370	316	:	RANGERR:
00000260'0000004F	0370	317	:	.LONG RANGERRSIZ,RANGERRADR
	0378	318	:	IDMSG:
000002AF'00000039	0378	319	:	.LONG IDMSGSIZ,IDMSGADR
	0380	320	:	RUN1_MSG:
000002E8'00000042	0380	321	:	.LONG RUN1_MSGSIZ,RUN1_MSGADR
	0388	322	:	PIDCTL:
0000032A'00000003	0388	323	:	.LONG PIDCTLSIZ,PIDCTLADR
	0390	324	:	

```
0390 326 .SBTTL INITIALIZATION
0390 327 *****
0390 328 :PROGRAM DESCRIPTION:
0390 329 :
0390 330 :   THIS PROGRAM TESTS THE FOLLOWING SYSTEM SERVICE:
0390 331 :   $SETPRT
0390 332 :
0390 333 :   THE PROGRAM FORCES POSSIBLE ERROR PATHS FOR THE ABOVE MENTIONED
0390 334 :   SYSTEM SERVICES.  THREE PASSES ARE MADE THROUGH THE TEST LOOP
0390 335 :   TO ENSURE PATH REPEATABILITY.  ONLY REGULAR VA SPACE IS USED IN
0390 336 :   THIS TEST PROGRAM.
0390 337 :
0390 338 :   REFER TO MASDS:[MMGSTS.COM]MMGTST.RAP FOR FURTHER INFORMATION
0390 339 :   REGARDING JUST HOW COMPLETELY THE ABOVE MENTIONED SYSTEM SERVICES
0390 340 :   ARE TESTED BY THIS PROGRAM.
0390 341 :
0390 342 :*PRIVILEGES:
0390 343 :   THIS PROGRAM NEEDS NO SPECIAL PRIVILEGES TO EXECUTE.
0390 344 :*****
0390 345 :
0390 346 : START HERE
0390 347 :
0000 0390 348 START: .WORD 0 ;ENTRY MASK
OE 50 E9 0392 349 $OPEN W^FAB ;OPEN THE FILE '$OUTPUT'
03A0 350 BLBC RO,10$ ;BRANCH IF ERROR
09 50 E8 03AB 351 $CONNECT W^RAB ;CONNECT THE RECORD ACCESS BLOCK
03AE 352 BLBS RO,20$
00000020'EF 01 D0 03B7 353 10$: $EXIT_S RO ;EXIT WITH STATUS IN RO
03BE 354 20$: MOVL #1,PASSCNT ;INITIALIZE THE PASS COUNT
50 00000018'EF 3C 03CD 355 $RESUME_S PID ;SET UP PROCESS ID
03D4 356 MOVZWL PID,RO
03EC 357 $FAO_S PIDCTL,MSGLEN,PIDMSGD,RO ;INIT THE PROCESS ID STRING
03EC 358 :
03EC 359 : INFORM OPERATOR THAT TESTS WILL BE RUN USING ONLY NORMAL VA SPACE
03EC 360 :
0010'CF 03FF 30 0402 361 $FAO_S RUN1 MSG,MSGLEN,MSGBUFD ;INFORM OPR NORMAL VA USED FOR TEST
04 0405 362 BSBW- TYPEMSGBUF
040A 363 BICL #CTL$M_PIDMSG,W^CTLFLG ;STOP PROCESS ID FROM PRINTING
040A 364 RSTART:
040A 365 RANGECHK ON
040F 366 $FAO_S IDMSG,MSGLEN,MSGBUFD,PASSCNT
03D5 30 042C 367 BSBW- TYPEMSGBUF
042F 368 EXPREG #1
53 01 3C 042F MOVZWL S^#SS$_NORMAL,R3
54 01 D0 0432 MOVL #1,R4
51 0008'CF DE 0435 MOVAL W^RETRANGE,R1
55 D4 043A CLRL R5
0272 30 043C BSBW EXPREGSUBR
52 0008'CF 7D 043F 369 MOVQ W^RETRANGE,R2
0000'CF 52 7D 0444 370 MOVQ R2,W^INRANGE
0014'CF 52 D0 0449 371 MOVL R2,W^SAVEND
044E 372
```

```
044E 374 .SBTTL FORCE ERRORS FROM SETPRT
044E 375 :
044E 376 : FORCE ERRORS IN SETPRT
044E 377 :
044E 378 :
0010'CF 08 CA 044E 379 RANGECHK OFF
                                BICL #CTL$M_RNGCHK,W^CTLFLG
                                DELTVA ;DELETE THE JUNK
                                MOVZWL S^#SS$ NORMAL,R3
                                MOVAL W^INRANGE,R0
                                MOVAL W^RETRANGE,R1
                                BSBW DELTVASUBR
0010'CF 08 CB 0463 380 RANGECHK ON
                                BISL #CTL$M_RNGCHK,W^CTLFLG
03 01 3C 0463 381 SETPRT UW,STATUS=#SS$ LENVIO ;PROTECT OFF END OF PO SPACE
50 0000'CF DE 0468 MOVZWL #SS$ LENVIO,R3
51 0008'CF DE 046D MOVAL W^INRANGE,R0
01E7 30 0472 MOVAL W^RETRANGE,R1
0463 380 RANGECHK ON
0463 381 SETPRT UW,STATUS=#SS$ LENVIO ;PROTECT OFF END OF PO SPACE
0468 MOVZWL #SS$ LENVIO,R3
046D MOVAL W^INRANGE,R0
0472 MOVAL W^RETRANGE,R1
0477 MOVZBL S^#PRT$C_UW,R4
047A MOVZBL S^#PRT$C_NONE,R5
047D CLRL R6
047F BSBW SETPRTSUBR
0482 382 SETPRT UW,#4,#8,#SS$ ACCVIO ;DELETED PAGE
0482 MOVL #4,W^INRANGE
0487 MOVL #8,W^INRANGE+4
048C MOVZWL #SS$ ACCVIO,R3
048F MOVAL W^INRANGE,R0
0494 MOVAL W^RETRANGE,R1
0499 MOVZBL S^#PRT$C_UW,R4
049C MOVZBL S^#PRT$C_NONE,R5
049F CLRL R6
04A1 BSBW SETPRTSUBR
04A4 383 SETPRT UR,#^X80000200,#^X80000A00,#SS$_NOPRIV
04A4 MOVL #^X80000200,W^INRANGE
04AD MOVL #^X80000A00,W^INRANGE+4
04B6 MOVZWL #SS$_NOPRIV,R3
04B9 MOVAL W^INRANGE,R0
04BE MOVAL W^RETRANGE,R1
04C3 MOVZBL S^#PRT$C_UR,R4
04C6 MOVZBL S^#PRT$C_NONE,R5
04C9 CLRL R6
04CB BSBW SETPRTSUBR
04CE 384 SETPRT UR,<#1231-<12829>-1>,W^INRANGE,#SS$_PAGOWNVIO
04CE MOVL #1231-<12829>-1,W^INRANGE
04D7 MOVL W^INRANGE,W^INRANGE+4
04DE MOVZWL #SS$_PAGOWNVIO,R3
04E3 MOVAL W^INRANGE,R0
04E8 MOVAL W^RETRANGE,R1
04ED MOVZBL S^#PRT$C_UR,R4
04F0 MOVZBL S^#PRT$C_NONE,R5
04F3 CLRL R6
04F5 BSBW SETPRTSUBR
0014'CF 00000600 8F C1 04F8 385 ADDL3 #^X600,W^SAVEND,W^INRANGE+4
0004'CF 0004'CF 0501 386 CRETVA W^SAVEND,W^INRANGE+4
0004'CF 0014'CF DO 0504 MOVL W^SAVEND,W^INRANGE
0004'CF 0004'CF DO 050B MOVL W^INRANGE+4,W^INRANGE+4
53 01 3C 0512 MOVZWL S^#SS$_NORMAL,R3
```


50	0000'CF	DE	0515		MOVAL	W^INRANGE,R0	
51	0008'CF	DE	051A		MOVAL	W^RETRANGE,R1	
	0114	30	051F		BSBW	CRETVASUBR	
			0522	387	SETPRT	URSW,STATUS=\$SS\$ _ACCVIO,-	
			0522	388		INADR=W^4	:INPUT RANGE NOT ACCESSIBLE
53	0C	3C	0522		MOVZWL	\$SS\$ _ACCVIO,R3	
50	0004'CF	DE	0525		MOVAL	W^4,R0	
51	0008'CF	DE	052A		MOVAL	W^RETRANGE,R1	
	54 0C	9A	052F		MOVZBL	S^#PRT\$C _URSW,R4	
	55 10	9A	0532		MOVZBL	S^#PRT\$C _NONE,R5	
	56	D4	0535		CLRL	R6	
	01E0	30	0537		BSBW	SETPRTSUBR	
			053A	389	SETPRT	UW	
53	01	3C	053A		MOVZWL	S^#SS\$ _NORMAL,R3	
50	0000'CF	DE	053D		MOVAL	W^INRANGE,R0	
51	0008'CF	DE	0542		MOVAL	W^RETRANGE,R1	
	54 04	9A	0547		MOVZBL	S^#PRT\$C _UW,R4	
	55 10	9A	054A		MOVZBL	S^#PRT\$C _NONE,R5	
	56	D4	054D		CLRL	R6	
	01C8	30	054F		BSBW	SETPRTSUBR	
			0552	390	SETPRT	URSW,STATUS=\$SS\$ _ACCVIO,-	
			0552	391		RETADR=W^8	:RETURN RANGE NOT ACCESSIBLE
53	0C	3C	0552		MOVZWL	\$SS\$ _ACCVIO,R3	
50	0000'CF	DE	0555		MOVAL	W^INRANGE,R0	
51	0008'CF	DE	055A		MOVAL	W^8,R1	
	54 0C	9A	055F		MOVZBL	S^#PRT\$C _URSW,R4	
	55 10	9A	0562		MOVZBL	S^#PRT\$C _NONE,R5	
	56	D4	0565		CLRL	R6	
	01B0	30	0567		BSBW	SETPRTSUBR	
			056A	392	SETPRT	UW	
53	01	3C	056A		MOVZWL	S^#SS\$ _NORMAL,R3	
50	0000'CF	DE	056D		MOVAL	W^INRANGE,R0	
51	0008'CF	DE	0572		MOVAL	W^RETRANGE,R1	
	54 04	9A	0577		MOVZBL	S^#PRT\$C _UW,R4	
	55 10	9A	057A		MOVZBL	S^#PRT\$C _NONE,R5	
	56	D4	057D		CLRL	R6	
	0198	30	057F		BSBW	SETPRTSUBR	
			0582	393	SETPRT	URSW,STATUS=\$SS\$ _ACCVIO,-	
			0582	394		RETADR=@W^INRANGE	:CHANGE PROTECTION OF RETURN RANGE P
53	0C	3C	0582		MOVZWL	\$SS\$ _ACCVIO,R3	
50	0000'CF	DE	0585		MOVAL	W^INRANGE,R0	
51	0000'DF	DE	058A		MOVAL	@W^INRANGE,R1	
	54 0C	9A	058F		MOVZBL	S^#PRT\$C _URSW,R4	
	55 10	9A	0592		MOVZBL	S^#PRT\$C _NONE,R5	
	56	D4	0595		CLRL	R6	
	0180	30	0597		BSBW	SETPRTSUBR	
			059A	395	SETPRT	UW	
53	01	3C	059A		MOVZWL	S^#SS\$ _NORMAL,R3	
50	0000'CF	DE	059D		MOVAL	W^INRANGE,R0	
51	0008'CF	DE	05A2		MOVAL	W^RETRANGE,R1	
	54 04	9A	05A7		MOVZBL	S^#PRT\$C _UW,R4	
	55 10	9A	05AA		MOVZBL	S^#PRT\$C _NONE,R5	
	56	D4	05AD		CLRL	R6	
	0168	30	05AF		BSBW	SETPRTSUBR	
			05B2	396	SETPRT	URSW,STATUS=\$SS\$ _ACCVIO,-	
			05B2	397		PRVPRTADR=@W^INRANGE	:CHANGE PROTECTION OF PREVIOUS PROT
53	0C	3C	05B2		MOVZWL	\$SS\$ _ACCVIO,R3	

```
50 0000'CF DE 05B5 MOVAL W^INRANGE,R0
51 0008'CF DE 05BA MOVAL W^RETRANGE,R1
54 00 9A 05BF MOVZBL S^#PRT$C_URSW,R4
55 10 9A 05C2 MOVZBL S^#PRT$C_NONE,R5
56 0000'DF DE 05C5 MOVAL W^INRANGE,R6
014D 30 05CA BSBW SETPRTSUBR
398 SETPRT TOBIG,STATUS=#SS$ IVPROTECT ;PROTECTION CODE GREATER THAN 15
53 02F4 8F 3C 05CD MOVZWL #SS$ IVPROTECT,R3
50 0000'CF DE 05D2 MOVAL W^INRANGE,R0
51 0008'CF DE 05D7 MOVAL W^RETRANGE,R1
54 20 9A 05DC MOVZBL S^#PRT$C_TOBIG,R4
55 10 9A 05DF MOVZBL S^#PRT$C_NONE,R5
56 D4 05E2 CLRL R6
0133 30 05E4 BSBW SETPRTSUBR
399 SETPRT RESERVE,STATUS=#SS$ IVPROTECT ;PASS RESERVED PROTECTION CODE
53 02F4 8F 3C 05E7 MOVZWL #SS$ IVPROTECT,R3
50 0000'CF DE 05EC MOVAL W^INRANGE,R0
51 0008'CF DE 05F1 MOVAL W^RETRANGE,R1
54 01 9A 05F6 MOVZBL S^#PRT$C_RESERVE,R4
55 10 9A 05F9 MOVZBL S^#PRT$C_NONE,R5
56 D4 05FC CLRL R6
0119 30 05FE BSBW SETPRTSUBR
400 NCWRITE
401 DELTVA
53 01 3C 060F MOVZWL S^#SS$ NORMAL,R3
50 0000'CF DE 0612 MOVAL W^INRANGE,R0
51 0008'CF DE 0617 MOVAL W^RETRANGE,R1
002B 30 061C BSBW DELTVASUBR
402 :
403 :END OF LOOP
404 :
405 AOBLEQ W^MAXPASSCNT,W^PASSCNT,160$
406 150$: MOVL #1,R0
407 $EXIT,S R0
408 160$: BRW RSTART
409
```

OC 0020'CF 001C'CF F3 061F 405
50 01 D0 0627 406
FDD4 31 0633 408
0636 409

```
0636 411 .SBTTL SUBROUTINES TO CALL THE SERVICES
0636 412
0636 413 : INPUT:
0636 414
0636 415 : R0 = INADR
0636 416 : R1 = RETADR
0636 417 : R3 = DESIRED STATUS
0636 418
0636 419 : OUTPUT:
0636 420
0636 421 : R2 PRESERVED
0636 422
0636 423 CRETVASUBR:
0636 424 $CRETVA_S (R0),(R1)
51 FCE9 CF DE 0643 425 MOVAL W^CRETVAERR,R1 ;ERROR CONTROL STRING
14 11 0648 426 BRB CHECK1
064A 427
064A 428 : INPUT:
064A 429
064A 430 : R0 = INADR
064A 431 : R1 = RETADR
064A 432 : R3 = DESIRED STATUS
064A 433
064A 434 : OUTPUT:
064A 435
064A 436 : R2 PRESERVED
064A 437
064A 438 DELTVASUBR:
064A 439 $DELTVA_S (R0),(R1)
51 FCDD CF DE 0657 440 MOVAL W^DELTVAERR,R1 ;ERROR CONTROL STRING
00 11 065C 441 BRB CHECK1
53 50 D1 065E 442 CHECK1:
4B 13 0661 443 CMPL R0,R3 ;STATUS AS DESIRED
53 0244 8F B1 0663 444 BEQL 10$ ;BRANCH IF YES
05 12 0668 445 CMPW #SS$_VASFULL,R3 ;IF EXPECTING VIRTUAL ADDRESS SPACE
50 1C B1 066A 446 BNEQ 5$ ;THEN EXCEEDS QUOTA MAY ALSO BE RETU
3F 13 066D 447 CMPW #SS$_EXQUOTA,R0
54 54 DD 066F 448 BEQL 10$
54 04 AE D0 0671 449 5$: PUSHL R4 ;ADDRESS OF ERROR
0675 450 MOVL 4(SP),R4
0675 451 $FAO_S (R1),MSGLEN,MSGBUFD,R4,R0,R3,-
06A8 452 INRANGE,INRANGE+4,RETRANGE,RETRANGE+4
0157 30 06AA 453 POPR #^M<R4>
05 05 06AD 454 BSBW TYPEMSGBUF
00D9 31 06AE 455 RSB
06AE 456 10$: BRW RANGECHK ;GO CHECK THE RETURN RANGE
06B1 457
06B1 458 : INPUT:
06B1 459
06B1 460 : R1 = RETADR
06B1 461 : R3 = DESIRED STATUS
06B1 462 : R4 = PAGCNT
06B1 463 : R5 = REGION
06B1 464
06B1 465 : OUTPUT:
06B1 466
06B1 467 :
```



```
06B1 468 : R2 PRESERVED
06B1 469
06B1 470 EXPREGSUBR:
06B1 471 $EXPREG_S R4,(R1),R5
51 FC7C CF DE 06C0 472 MOVAL W^EXPREGERR,R1 ;ERROR CONTROL STRING
06C5 473 CHECK2:
53 50 D1 06C5 474 CMPL R0,R3 ;STATUS AS DESIRED?
39 13 06C8 475 BEQL 10$ ;BRANCH IF YES
56 04 AE DD 06CA 476 PUSHL R6
06CC 477 MOVL 4(SP),R6 ;ADDRESS OF ERROR
06D0 478 $FAO_S (R1),MSGLEN,MSGBUFD,R6,R0,R3,R4,R5,-
06D0 479 RETRANGE,RETRANGE+4
0040 8F BA 06FB 480 POPR #^M<R6>
0102 30 06FF 481 BSBW TYPEMSGBUF
05 0707 482 RSB
0000'CF 0008'CF D0 0703 483 10$: MOVL W^RETRANGE,W^INRANGE ;MAKE INPUT RANGE LOOK LIKE CRETVA/D
54 54 09 D7 070A 484 DECL R4
0004'CF 0000'CF 54 C1 070C 485 ASHL #9,R4,R4
70 11 0710 486 ADDL3 R4,W^INRANGE,W^INRANGE+4
0718 487 BRB RANGECHK ;AND CHECK THE RETURN RANGE
071A 488 :
071A 489 INPUT:
071A 490 R0 = INADR
071A 491 R1 = RETADR
071A 492 R3 = DESIRED STATUS
071A 493 R4 = PROTECTION TO BE SET
071A 494 R5 = DESIRED PREVIOUS PROTECTION (104 MEANS NOT SPECIFIED)
071A 495 R6 = ADDRESS TO RETURN PREVIOUS PROTECTION
071A 496
071A 497 OUTPUT:
071A 498
071A 499 R2 PRESERVED
071A 500
071A 501
071A 502 $ETPRTSUBR:
071A 503 $SETPRT_S (R0),(R1),,R4,(R6)
072B 504 IFNOWRT #1,(R6),10$ ;SKIP PREVIOUS PROTECTION CHECK
0731 505 ;IF IT WASN'T RETURNED
55 10 91 0731 506 CMPB #104,R5 ;OR IF IT WASN'T SPECIFIED
05 13 0734 507 BEQL 10$
66 55 91 0736 508 CMPB R5,(R6) ;OTHERWISE CHECK IT
05 12 0739 509 BNEQ 20$ ;AND BRANCH IF IT'S WRONG
073B 510 10$: CMPL R0,R3 ;STATUS = DESIRED STATUS?
53 50 D1 073B 511 BEQL 30$ ;BRANCH IF YES
4A 13 073E 512
0740 513 20$: PUSHL R7
57 04 AE DD 0740 514 MOVL 4(SP),R7 ;ADDRESS OF ERROR
0742 515 $FAO_S $ETPRTERR,MSGLEN,MSGBUFD,R7,R0,R3,-
0746 516 INRANGE,INRANGE+4,RETRANGE,RETRANGE+4,-
0746 517 PREVPROT,R5
0746 518
57 8ED0 0783 519 POPL R7
007B 30 0786 520 BSBW TYPEMSGBUF
05 0789 521 RSB
078A 522 30$:
078A 523 RANGECHK:
73 0010'CF 03 E1 078A 524 BBC #CTL$V_RNGCHK,W^CTLFLG,40$ ;BRANCH IF RANGE CHECK IS DISABLED
```

```
50      70 50      E9 0790 525      BLBC  R0,40$      ;IF ERROR IN SERVICE, SKIP THE RANGE
      0000'CF 7D 0793 526      MOVQ  W^INRANGE,R0      ;R0 = STARVA, R1 = ENDVA
      51      50      D1 0798 527      CMPL  R0,R1      ;WHICH DIRECTION?
      12      1A 0798 528      BGTRU  10$      ;BRANCH IF BACKWARDS
      04      1F 079D 529      BLSSU  5$      ;BRANCH IF FORWARDS
      OC 50      1E E0 079F 530      BBS   #30,R0,10$      ;FOR EQUAL, P0 SPACE FORWARDS, P1 BA
      07A3 531      ;
      07A3 532      ; REQUESTED RANGE IS FORWARDS
      07A3 533      ;
      50      01FF 8F AA 07A3 534 5$: BICW  #^X1FF,R0      ;FROM BYTE 0 OF STARTVA
      51      01FF 8F AB 07A8 535      BISW  #^X1FF,R1      ;THROUGH LAST BYTE OF ENDVA
      0A      11 07AD 536      BRB   20$      ;
      07AF 537      ;
      07AF 538      ; GOING BACKWARDS IN VIRTUAL ADDRESS SPACE
      07AF 539      ;
      50      01FF 8F AB 07AF 540 10$: BISW  #^X1FF,R0      ;LAST BYTE OF STARTVA
      51      01FF 8F AA 07B4 541      BICW  #^X1FF,R1      ;THROUGH FIRST BYTE OF ENDVA
      0008'CF 50      D1 07B9 542 20$: CMPL  R0,W^RETRANGE      ;IS THIS WHAT WAS RETURNED?
      07      12 07BE 543      BNEQ  30$      ;BRANCH IF NOT, ERROR
      000C'CF 51      D1 07C0 544      CMPL  R1,W^RETRANGE+4      ;THIS ONE OK TOO?
      3C      13 07C5 545      BEQL  40$      ;BRANCH IF YES, RANGE OK
      53      DD 07C7 546 30$: PUSHL  R3      ;SAVE REGISTER
      53      04 AE D0 07C9 547      MOVL  4(SP),R3      ;TO USE FOR ERROR PC
      07CD 548      $FA0_S <W^RANGERR>,MSGLEN,MSGBUFD,R3,- ;FORMAT THE ERROR MESSAGE
      07CD 549      INRANGE,INRANGE+4,RETRANGE,RETRANGE+4
      08      BA 07FE 550      POPR   #^M<R3>      ;RESTORE SAVE REGISTER
      0001      30 0800 551      BSBW  TYPEMSGBUF      ;OUTPUT THE ERROR MESSAGE
      05      0803 552 40$: RSB      ;AND RETURN
```

```
0804 554 .SBTTL MISCELLANEOUS SUBROUTINES
0804 555 :
0804 556 : TYPE A MESSAGE
0804 557 : MSGBUF IS THE ADDRESS OF THE BEGINNING OF THE STRING
0804 558 : MSGLEN CONTAINS THE SIZE (IN BYTES) OF THE STRING
0804 559 :
0804 560 TYPEMSGBUF:
0804 561 MOVL W^MSGLEN,R0 ;SIZE TO R0
0809 562 MOVAL W^MSGBUF,R1 ;ADDRESS TO R1
080E 563 BBC #CTL$V,PIDMSG,W^CTLFLG,5$ ;BRANCH IF NO PROCESS ID REQUIRED
0814 564 MOVAL W^MSGBUFID,R1 ;ADDRESS INCLUDING PID MSG
0819 565 ADDL S^#<MSGBUF-MSGBUFID>,R0 ;INCLUDE EXTRA BYTES IN COUNT
081C 566 5$:
081C 567 MOVL R1,W^RAB+RAB$L_RBF ;SET BUFFER ADDRESS
0821 568 MOVW R0,W^RAB+RAB$W_RSZ ;AND SIZE
0826 569 $PUT W^RAB ;OUTPUT THE MESSAGE
0831 570 BLBC R0,20$
0834 571 RSB
0835 572 20$: $EXIT,S R0 ;EXIT WOTH ERROR STATUS
083E 573 :
083E 574 : INPUTS:
083E 575 :
083E 576 : 0(SP) = ADDRESS OF ERROR
083E 577 : R1 = ADDRESS OF FORMAT CONTROL STRING
083E 578 :
083E 579 : OUTPUTS:
083E 580 :
083E 581 : R2 PRESERVED
083E 582 :
083E 583 PROBERR:
083E 584 PUSHL R5
0840 585 MOVL 4(SP),R5
0844 586 $FAO,S (R1),MSGLEN,MSGBUFD,R5
085B 587 POPR #^M<R5>
085D 588 BSBW TYPEMSGBUF
0860 589 RSB
0861 590
0861 591
0861 592 .END START
```

50 00B8'CF DO 0804 561
51 00DA'CF DE 0809 562
08 0010'CF 02 E1 080E 563
51 00CC'CF DE 0814 564
50 0E' CO 0819 565
009C'CF 51 DO 081C 567
0096'CF 50 BO 0821 568
01 50 E9 0826 569
05 0831 570
0834 571
0835 572
083E 573
083E 574
083E 575
083E 576
083E 577
083E 578
083E 579
083E 580
083E 581
083E 582
083E 583
55 55 DD 083E 584
55 04 AE DO 0840 585
20 BA 0844 586
FFA4 30 085B 587
05 085D 588
0860 589
0861 590
0861 591
0861 592

MMGSETPRT
Symbol table

- TEST OF \$SETPRT SYSTEM SERVICE

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\$\$TAB	= 00000074	R	02	NOWRITERR	00000368	R	03
\$\$TABEND	= 00000088	R	02	NOWRITERRADR	00000238	R	03
\$\$TMP	= 00000000			NOWRITERRSIZ	= 00000025		
\$\$TMP1	= 00000001			OUTNAMADR	00000000	R	03
\$\$TMP2	= 000000CF			OUTNAMSIZ	= 0000000A		
\$\$T1	= 00000000			PASSCNT	00000020	R	02
\$\$T2	= 00000004			PID	00000018	R	02
BIT...	= 00000004			PIDCTL	00000388	R	03
CHECK1	0000065E	R	03	PIDCTLADR	0000032A	R	03
CHECK2	000006C5	R	03	PIDCTLSIZ	= 00000003		
CRETVAERR	00000330	R	03	PIDMSG	000000D6	R	02
CRETVAERRADR	0000000A	R	03	PIDMSGD	000000C4	R	02
CRETVAERRSIZ	= 00000063			PREVPROT	00000024	R	02
CRETVASUBR	00000636	R	03	PROBERR	0000083E	R	03
CRLF	000000CC	R	02	PRTSC_NONE	= 00000010		
CTLSM_MEMLOOP	= 00000001			PRTSC_RESERVE	= 00000001		
CTLSM_PIDMSG	= 00000004			PRTSC_TOBIG	= 00000020		
CTLSM_RNGCHK	= 00000008			PRTSC_UR	= 0000000F		
CTLSM_TSTLOOP	= 00000002			PRTSC_URSW	= 0000000C		
CTLSV_MEMLOOP	= 00000000			PRTSC_UW	= 00000004		
CTLSV_PIDMSG	= 00000002			RAB	00000074	R	02
CTLSV_RNGCHK	= 00000003			RAB\$B_RAC	= 0000001E		
CTLSV_TSTLOOP	= 00000001			RAB\$C_BID	= 00000001		
CTLFLG	00000010	R	02	RAB\$C_BLN	= 00000044		
DELTVAERR	00000338	R	03	RAB\$C_SEQ	= 00000000		
DELTVAERRADR	0000006D	R	03	RAB\$C_CTX	= 00000018		
DELTVAERRSIZ	= 00000063			RAB\$C_RBF	= 00000028		
DELTVASUBR	0000064A	R	03	RAB\$C_RBP	= 00000004		
EXPREGERR	00000340	R	03	RAB\$C_RSZ	= 00000022		
EXPREGERRADR	000000D0	R	03	RANGECHK	0000078A	R	03
EXPREGERRSIZ	= 00000072			RANGERR	00000370	R	03
EXPREGSUBR	000006B1	R	03	RANGERRADR	00000260	R	03
FAB	00000024	R	02	RANGERRSIZ	= 0000004F		
FAB\$C_BID	= 00000003			READERR	00000350	R	03
FAB\$C_BLN	= 00000050			READERRADR	000001D4	R	03
FAB\$C_SEQ	= 00000000			READERRSIZ	= 00000021		
FAB\$C_VAR	= 00000002			RETRANGE	00000008	R	02
FAB\$C_ALQ	= 00000010			RSTART	0000040A	R	03
FAB\$C_FOP	= 00000004			RUN1_MSG	00000380	R	03
FAB\$V_CHAN_MODE	= 00000002			RUN1_MSGADR	000002E8	R	03
FAB\$V_FILE_MODE	= 00000004			RUN1_MSGSIZ	= 00000042		
FAB\$V_LNM_MODE	= 00000000			SAVEND	00000014	R	02
FAB\$V_PUT	= 00000000			SETPRTERR	00000348	R	03
FAB\$W_GBC	= 00000048			SETPRTERRADR	00000142	R	03
IDMSG	00000378	R	03	SETPRTERRSIZ	= 00000092		
IDMSGADR	000002AF	R	03	SETPRTSUBR	0000071A	R	03
IDMSGSIZ	= 00000039			SIZ...	= 00000001		
INRANGE	00000000	R	02	\$\$\$_ACCVIO	= 0000000C		
MAXPASSCNT	0000001C	R	02	\$\$\$_EXQUOTA	= 0000001C		
MSGBUF	000000DA	R	02	\$\$\$_IVPROTECT	= 000002F4		
MSGBUFD	000000BC	R	02	\$\$\$_LENVIO	= 0000018C		
MSGBUFID	000000CC	R	02	\$\$\$_NOPRIV	= 00000024		
MSGBUFSIZ	= 000000A0			\$\$\$_NORMAL	= 00000001		
MSGLEN	00000088	R	02	\$\$\$_PAGOWNVIO	= 000001EC		
NOREADERR	00000358	R	03	\$\$\$_VASFULL	= 00000244		
NOREADERRADR	000001F5	R	03	START	00000390	R	03
NOREADERRSIZ	= 00000024			SYSS\$CONNECT	*****	GX	03

MM
VO52
58
41
4C
21
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4C
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2052
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4C
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58

MMGSETPRT
Symbol table

- TEST OF \$SETPRT SYSTEM SERVICE H 13

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SYSSCRETVA	*****	GX	03
SYSSDELTVA	*****	GX	03
SYSS\$EXIT	*****	GX	03
SYSS\$EXPREG	*****	GX	03
SYSS\$FAO	*****	X	03
SYSS\$OPEN	*****	GX	03
SYSS\$PUT	*****	GX	03
SYSS\$RESUME	*****	GX	03
SYSS\$SETPRT	*****	GX	03
TYPEMSGBUF	00000804	R	03
WRITERR	00000360	R	03
WRITERRADR	00000219	R	03
WRITERRSIZ	= 00000022		

! Psect synopsis !

PSECT name	Allocation	PSECT No.	Attributes
. ABS .	00000000 (0.)	00 (0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
\$ABSS	00000000 (0.)	01 (1.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
DATA0	0000017A (378.)	02 (2.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC PAGE
CODE	00000861 (2145.)	03 (3.)	NOPIC USR CON REL LCL NOSHR EXE RD NOWRT NOVEC PAGE

! Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
Initialization	19	00:00:00.11	00:00:02.18
Command processing	123	00:00:00.77	00:00:06.57
Pass 1	336	00:00:11.81	00:00:42.73
Symbol table sort	0	00:00:01.19	00:00:03.96
Pass 2	135	00:00:02.73	00:00:09.85
Symbol table output	16	00:00:00.12	00:00:00.15
Psect synopsis output	1	00:00:00.02	00:00:00.33
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	632	00:00:16.75	00:01:05.78

The working set limit was 1350 pages.
70956 bytes (139 pages) of virtual memory were used to buffer the intermediate code.
There were 50 pages of symbol table space allocated to hold 874 non-local and 18 local symbols.
592 source lines were read in Pass 1, producing 20 object records in Pass 2.
50 pages of virtual memory were used to define 42 macros.

! Macro library statistics !

Macro library name	Macros defined
-\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	1
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2	27
TOTALS (all libraries)	28

MMGSETPRT
VAX-11 Macro Run Statistics

- TEST OF \$SETPRT SYSTEM SERVICE

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[MMGTST.SRC]MMGSETPRT.MAR;1

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1146 GETS were required to define 28 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:MMGSETPRT/OBJ=OBJ\$:MMGSETPRT MSRC\$:MMGSETPRT/UPDATE=(ENH\$:MMGSETPRT)+EXECMLS/LIB

MM
V0

4F
4E

45
54
2F

52
4F

20
41
21

4F
43
53
4C
44
53
4C
49
53
4C

4E
4C
58

21
45
20

4E
56
37
50

0236

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